

NAT I Engineering Chemistry

Sr	Questions	Answers Choice
1	Mark the smallest atom	A. F B. Cl C. Br D. I
2	The rate of reaction between A and B increases by a factor of 100 when the concentration with respect to A is increased 10 folds the order of reaction w.r.t A is	A. 10 B. 1 C. 4 D. 2
3	Which of the following reagent cannot be used for preparing alkyl chloride from alcohol?	A. $\text{HCl} + \text{anhyd. ZnCl}_2$ B. NaCl C. PCl_5 D. SOCl_2
4	Inter molecular forces in solid hydrogen are	A. Covalent forces B. Van der Waal forces or London dispersion force C. Hydrogen bonds D. All of these
5	Carbon monoxide is pollutant as it	A. Inactivates nerves B. Inhibits glycolysis C. Combines with oxygen D. Combines with hemoglobin
6	In a reversible chemical reaction having two reactants in equilibrium if the concentration of the reactants are doubled then the equilibrium constant will	A. Also be doubled B. Be halved C. Becomes one fourth D. Remains the same
7	When electrons revolve in stationary orbits	A. There is no change in energy level B. They become stationary C. They are gaining kinetic energy D. There is increase in energy
8	The disaccharide present in milk is	A. Sucrose B. Maltose C. Lactose D. Cellobiose
9	The bond angle H - O - H in ice is closest to	A. 120° , 28° B. 60° C. 90° D. 109°
10	Which one of the halogen acid is a liquid?	A. HF B. HCl C. HBr D. HI
11	Which one is not usually used for the crystallization	A. Acetone B. Acetic acid C. Sulphuric acid D. Chloroform
12	Gooch crucible used to filter the solution of	A. H_2SO_4 B. HCl C. KMnO_4 D. Both B & C
13	For most of the chemical reaction the rate of reaction	A. Increases as the reaction proceeds B. Decreases as the reaction proceeds C. May increase or decrease during the reaction D. Remains constant as the reaction

14	The last orbit of argon would have electrons	A. 8 B. 18 C. 2 D. 6
15	The heats evolved in combustion of rhombic and monoclinic sulphur are - 70960 and - 71030 cal mol ⁻¹ respectively what will be heat of conversion of rhombic sulphur to monoclinic?	A. 70960 calories B. 71030 calories C. -70 calories D. +70 calories
16	Potassium is kept in	A. Water B. Ammonia C. alcohol D. Kerosene E.
17	The osmotic pressure of solution increases if	A. Temperature is decreased B. Solution constant is increased C. Number of solute molecules are increased D. Volume is increased
18	The credit of discovering neutron goes to	A. Rutherford B. Langmuir C. Chadwick D. Austen
19	Which quantum number is sufficient to describe the electron in hydrogen atom?	A. / B. n C. m D. s
20	The formula of calcium cyanamide is	A. Ca(CN) ₂ B. CaC ₂ N C. CaNCN D. CaCHNH ₂